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SOURCE Documentary as indicated. (Information specifically requested.)

RECENTLY PUBLISHED RESEARCH OF THE  
 ARMY-NAVY ACADEMY, USSR

"Iontophoresis of a Mixture of Some Poisons from  
 Equimolecular Solutions," E. A. Dobroslovova,  
 Army-Navy Acad, Leningrad

"Byull Ekspier Biol i Med" Vol 21, No 3, 1946, pp 40-2

Experiments were made on human skin with equimolecular solutions of binary mixtures of adrenaline with codein, quinine, NaCl, and CaCl<sub>2</sub>. For all mixtures, except that with codeine, iontophoresis produced first a spasm of the vessels; this indicates the predominating action of adrenaline. With codeine, iontophoresis produced urticaria locally. This indicates the predominating action of codein. Only when the ratio of adrenaline to codeine was increased to 5:1 did the action of adrenaline predominate. With ratios of NaCl and of CaCl<sub>2</sub> to adrenaline equal to 800:1, the affect of adrenaline still predominated. Concluded that the predominating action in iontophoresis is due to greater pharmacological activity rather than to physical properties.

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